



State of New Hampshire

GENERAL COURT

CONCORD

MEMORANDUM

DATE: November 1, 2018

TO: Honorable Chris Sununu, Governor
Honorable Gene Chandler, Speaker of the House
Honorable Chuck W. Morse, President of the Senate
Honorable Paul C. Smith, House Clerk
Honorable Tammy L. Wright, Senate Clerk
Michael York, State Librarian

FROM: Representative Charles McMahon, Chairman

SUBJECT: Second Interim Report of the Commission on the Seacoast Cancer Cluster Investigation
RSA 126-A:74 (HB 484, Chapter 197:2, Laws of 2017)

Pursuant to RSA 126-A:74 (HB 484, Chapter 197:2, Laws of 2017), enclosed please find the Second Interim Report of the Commission on the Seacoast Cancer Cluster.

If you have any questions or comments regarding this report, please do not hesitate to contact me.

I would like to thank those members of the commission who were instrumental in this study. I would also like to acknowledge all those who testified before the commission and assisted the commission in our study.

Enclosures

cc: Members of the Commission

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Second Interim Report

**Commission on the Seacoast Cancer Cluster
RSA 126-A:74 (HB 484, Chapter 197:2, Laws of 2017)**

November 1, 2018

Commission Charge and Study Purpose:

- (1) Develop a common understanding of the key definitions and concepts of cancer clusters and environmental investigation.
- (2) Review the progress made by state and federal agencies and their partners.
- (3) Delineate the potential roles and responsibilities for municipalities, state agencies, and their partners.
- (4) Provide informed communication about the cancer cluster investigation to their constituencies.
- (5) Calibrate and utilize the Seacoast New Hampshire Groundwater Availability Study developed by the United States Geological Survey in 2003 to assess localized groundwater flow and contaminant migration from sites selected by the commission.

Process and Procedures:

The committee organized on September 26, 2017 and elected Representative Charles McMahon as Chair. The Chair appointed Janet Stevens as commission clerk.

The committee met eleven times throughout the study period. Meeting minutes are attached with more in depth information.

Commission Membership:

Charles McMahon - House member appointed by the Speaker (Chair)
Philip Bean - House member appointed by the Speaker
Martin Bove - House member appointed by the Speaker
Mindi Messmer - House member appointed by the House Minority Leader
Patrick Long - House member appointed by the House Minority Leader
Martha Fuller Clark - Senate
Daniel Innis - Senate
Benjamin Chan - NH DHHS
Michael Wimsatt - NH DES
Kim McNamara - City of Portsmouth, NH
Robert Renny Cushing - Town of Hampton, NH
Thomas Sherman - Town of Rye, NH
Janet Stevens - Resident of the seacoast appointed by the Governor
Julie Tucker - Resident of the seacoast appointed by the Governor
Wendy Jones - Resident of the seacoast appointed by the Governor
Jim Murphy - US EPA
Thomas Mack - NH Chapter of the US Geological Survey
Rosemary Caron - Toxicologist from UNH appointed by the Governor

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Documents Reviewed by the Commission:

- Summary of the Rhabdomyosarcoma (RMS) and Pleuropulmonary Blastoma (PPB) Cancer Cluster Investigation – DHHS, DPHS Powerpoint May 11, 2017
- Investigation of Rhabdomyosarcoma (RMS) Cases in the Rye Area: Surveillance Report Update May 10, 2017 – DHHS, DPHS
- Pediatric Seacoast Cancer Cluster Investigation: A Summary of Investigation Findings as of April 30, 2017 – DHHS, DPHS
- Cancer Incidence in the 5-town Seacoast Area, 2005-2014 – DHHS, DPHS
- Protocol for a Case Investigation of a Cluster of Pediatric Rhabdomyosarcoma and Pleuropulmonary Blastoma New Hampshire, 2016 – DHHS, DPHS
- 10 Things to know about the RMS Investigation – DHHS, DPHS
- Investigation of Rhabdomyosarcoma (RMS) Case in the Rye Area, February 2, 2016 – DHHS, DPHS
- EPA Coakley Landfill Site Documents and Data – CLG, EPA (EPA Superfund Site Document Archive)
- Governor's Task Force on the Seacoast Cancer Cluster: Final Report September, 2017
- Investigating Suspected Cancer clusters and Responding to Community Concerns: Guidelines from CDC and the Council of State and Territorial Epidemiologists – CDC
- Coakley Landfill Update, November 2, 2017 – EPA, NHDES
- Aqueous Film Forming Foam (AFFF) Report to Congress, October 2017 – Department of Defense
- NHDES Letter of March 2, 2017 re: Coakley Landfill Superfund Site – Perfluorinated Chemicals (PFCs) in Berry's Brook
- July 14, 2017 Inter-Department Communication re: Perfluorinated compounds (PFCs) in Berry's Brook
- John P. Giesy, et al. "Aquatic Toxicology of Perfluorinated Chemicals" in *Reviews of Environmental Toxicology* edited by D.M. Whitacre, 2010. Pg. 1-47.
- Coakley #2 Surface Water Sampling Summary for Lab #1641267 – Conservation Law Foundation
- USEPA-Great Lakes Restoration Initiative Project: Final Report May 28, 2015 – Michigan Department of Community Health
- Coakley Landfill Update, November 8, 2017 (Powerpoint) – EPA and NHDES
- NHDES Coakley Landfill Site Documents and Data (NHDES OneStop Document Archive)
- NHDES Letter of July 7, 2017 re: Coakley Landfill Superfund Site
- Town of Hampton Concerns Regarding Future Efforts at the Coakley Landfill – Dr. Thomas Ballesterio
- Rye EPA Surface Water Impaired Status Map (2008) – EPA
- New Jersey PFNA Maximum Contaminant Level Rule
- New Jersey PFAO MCL Appendix A
- Jason Schreiber, "Millions at stake in landfill battle," Seacoast Online. Posted July 24, 1998, Updated December 15, 2010.
- Coakley Landfill Update, January 9, 2018 – EPA, NHDES
- Coakley Landfill Superfund Site Five-Year Review, January 2018 – EPA
- Letter of January 18, 2018 re: Request for a Bedrock Investigation – EPA
- Bethlehem Landfill Response to Public Comment – NHDES
- 1989 Coakley Landfill Draft Feasibility Study - CLG
- Dr. Ballesterio Testimony - December 1, 2017
- Fish Tissue Sampling Response Letter - March 8, 2018 - CLG
- Bedrock Work Plan - March 21, 2018 - CLG
- Coakley Landfill Background 1972 to 2016 – EPA, NHDES

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- CLG Messmer Response
- Revised CES Inc., Bedrock Study Draft Work Plan - May 31, 2018
- Response to CLG Fish Tissue Workplan, Final - June 12, 2018
- Response to Draft Fish Tissue Field Sampling Work Plan, Berry's Brook, June 12, 2018 – EPA
- Annie Snider, "White House, EPA headed off chemical pollution study," Politico, May 14, 2018
- EPA Response to Revised CES Inc., Bedrock Study Draft Work Plan
- ATSDR Toxicological Profile for Perfluoroalkyls: Draft for Public Comment - June 2018
- Geographic Variation in Pediatric Cancer Incidence: United States, 2003-2014 – CDC
- Human Health Effects of Drinking Water Exposures to Per- and Polyfluoroalkyl Substances (PFAS) at Pease International Tradeport - ATSDR
- PFAS ToxFAQs
- CES Inc. Letter re: Results of Storm Water Sampling – August 14, 2018
- EPA response to CES Inc. Letter re: Results of Storm Water Sampling – August 17, 2018
- Notice of Decision – Mindi Messmer, et al v. Coakley Landfill Group, et al
- EPA letter re: May 31, 2018 Revised Draft Deep Bedrock Investigation Work Plan – July 17, 2018
- NH DES letter re: Groundwater Management Permit Sampling Modification Request – September 14, 2018
- NH DES letter re: Split sample results for private well at 368 Breakfast Hill Road, R-3 – October 5, 2018
- NH DES letter re: 1, 4 Dioxane, 339 Breakfast Hill Rd., Greenland NH – September 16, 2013
- Summit Environmental Consultants letter re: Well R-3 Water Quality Sampling Results – April 4, 2013
- Statement by Dr. Thomas P. Ballesterio for Seacoast Cancer Cluster Commission meeting 10 October 2018
- US EPA and NH DES Community Update: Coakley Landfill Superfund Site – October 9, 2018
- NH DHHS, Division of Public Health: Building Environmental Health and Chronic Disease Capacity Resource Request
- EPA Technical Fact Sheet – 1, 4-Dioxane

Findings and Recommendations:

Suggested Proposed Legislation: